Refinery Is Completed

At a cost of more than seven and a half million dollars, conwork on the new Metals Refinery, employing a chemical metal recovery system, has been completed at the National Lead Company - property southeast of Fredericktown. Almost two years in the making, the new refinery is expected to enable the St. Louis Smelting and Refining Division of the National Lead Company to produce seven percent of the world's mine production of strategic cobalt and be the second doinestic producer, accounting for thirty percent of the domestic cobalt production

The Belgian Congo in Africa leads the world in production of cobalt with about 75 percent of the total production.

According to Harold Krueger, Manager of the St. Louis Smelting and Refining Division. the position of cobalt in atomic, jet-propelled age has become more and more important. "Cobalt-60," Kruger said recently "now occupies the most useful and powerful seat in the group of radio-active -materials for industrial research." In this use cobalt metal is treated with radium or other radio-active material and the cobait product

thus is called Cobalt-60.

Cobalt, for the most part, is used extensively in high temperfor the production of jet aircrait, invented jointly by the Chemical production of jet aircrait, invented jointly by the Chemical production of Saturation Corporation and the Many people, according to Construction Corporation and the Mass authorized to secure critical per Mining Company. It was Krueger, said the problem of National Lead Company. The rematerials, to encourage their abandoned in 1849 because of the small quantities of cobalt and nickel and cobalt from iron contoconcerns for the construction. The property was mined again nickel in the mill residues of the centrates, originally discarded as of necessary facilities to accombly Copper Creek, Mineral and mish this. In return, the Govern-Mining Company-in 1860 and Fredericktown property could not be solved. "Certainly," he added, "the meaning of the word 'cobalt,' taken from the German word 'kobald' meaning 'goblin' or 'unwanted character,' has been real for all those who have been involved in this work."

Krueger dispelled the myth that "cobalt bombs" will be pro-duced at the new refinery. The



Shown here is a recent photo of the new chemical refinery at the National Lead Company property here. The refinery was completed recently by the Chemical Construction Corporation at a cost of seven and a half million dollars and should enable the St. Louis Smelting and Refin-

ing Division of the National Lead - Company realize an output of seven percent of the world's production of cobalt. At the peak employment. period about 485 workers were employed on the project which took almost two years to complete.

chemical principal, he said, as it ials, will be supplied to the in 1847-when the shaft

reporter, primary efforts of the workings here will still be directed toward a high recovery of

and delays in delivery of other doing some drilling.

At present there are only two critical materials, the actual constitution of the following community and engineers will producing constitution of the following co in Cornwall, Pennstyvania; the other at Garffeld, Utah.

Krueger pointed out the main difference between this refinery and other ore refineries is that this one will use chemicals to separate the minerals from each other and the ore. Standard refineries use heat.

Natural gas is reformed to use in the process and this is essentially hydrogen, which has led some people to speculate on the usual smelling and relining spirit of all those who have been the possibility of hydrogen bomb methods; has been described as involved in the Buckeye Mine. the possibility of hydrogen bomb production here an assumption, basically new and revolutionary : Perhaps then 'cobalt' will have Krueger said. that unfounded and untrue.

residue but stockpiled since 1944, plish this, In return; the Govern- Mining 'Company-In' 1860
Basically, Krueger told a D-N ment is to get a portion of the abandoned due to Civil

of this area was first mited in 50 to 100 men would also work 1818, "The discovery at this on non-technical phases of the time," Krueger said, "developed job. interest and a determination to

ature-resistant steels, essential applies to Fredericktown ores, was Government. Under the Defense originally sunk, and operated for the production of jet aircraft, invented jointly by the Chemical Production Act the Government under the name of Buckeye Coperor to production of jet aircraft, invented jointly by the Chemical Production Act the Government under the name of Buckeye Coperor to production of jet aircraft. Government. Under the Defense originally sunk, and operated

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Civil War materials produced. skirmishes and no refinery being
The National Lead Company able to treat nickel-cobalt ores, skirmishes and no refinery being received a government loan and Frank Schulte, a self-made lead and copper in clean concen- construction of the refinery by miner and prospector of Fredertrates, without sacrificing maximum recovery of cobait or oration was started in May 1952, optioned property to several innickel, to be retained in a third Except for a steel strike in 1952 dividuals and concerns, a after

The manager said that a soluproduce the valuable metal or its tion to the long-standing cobaltcompounds that has been prac-nickel separation problem is now tically without interruption and, in sight, "When this becomes a tically without interruption and, in sight, "When this becomes a likewise, without success." reality," he concluded, "Missouri The method of extracting co- will have every right to be proud balt, nickel and copper from of its position in the cobalt world ores by chemical rather than by of today and of the indomitable is entirely and, as mentioned earlier, was a much different meaning to invented jointly by the Chemical those people who have devoted In addition to the standard Construction Corporation and the so much effort toward finding lead mining operations, cobait, National Lead. Company for the solution to this problem than included and copper will be productive treatment of FrederickLowers and the solution to this problem than including the solution of the solution of the solution to the problem than the solution of the solution of the solution to the standard company for the solution to the solution to the standard company for the solution to ed in metal form. Nickel and Krueger sketched a brief his as an 'unwanted character' or cobalt, classed as critical mater- tory of the property, beginning goblin'."

